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NOTICE OF ALLOWANCE AND FEE(S) DUE

42425

7500

01/14/2010

HICKMAN PALERMO TRUONG & BECKER/ORACLE 2055 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110-1083 EXAMINER

MORRISON, JAY A

ART UNIT PAPER NUMBER

2168

DATE MAILED: 01/14/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830.211	04/21/2004	Fei Ge	50277-2433	9360

TITLE OF INVENTION: COST-BASED OPTIMIZER FOR AN XML DATA REPOSITORY WITHIN A DATABASE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/14/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

42425 HICKMAN P <i>F</i>		ock 1 for any change of address)	Feet	c) Transmittal Thi	s certificate cannot be used	or domestic mailings of the for any other accompanying	
HICKMAN PA	7590 01/14		have	its own certificate	of mailing or transmission.	ent or formal drawing, must	
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2055 GATEWA		NG & BECKER/O	State	reby certify that thes Postal Service w	is Fee(s) Transmittal is bein	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.	
SUITE 550 SAN JOSE, CA	95110-1083		trans	smitted to the USP	ΓO (571) 273-2885, on the σ		
5711, 30012, 671	75110 1005					(Depositor's name)	
						(Signature)	
(DDT 10 LETOLLIA							
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/830,211 TITLE OF INVENTION	04/21/2004 • COST-BASED OPTIN	MIZER FOR AN YMI-D	Fei Ge ATA REPOSITORY WITI	HIN A DATARAS	50277-2433 E	9360	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/14/2010	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MORRISC	ON, JAY A	2168	707-688000	•			
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p				
	ondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent atto- listed, no name will be	stered patent attorneys or agents. If no name is a no name will be printed.			
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)			
PLEASE NOTE: Un!	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assignee pletion of this form is NO	data will appear on the pa T a substitute for filing an	atent. If an assign	ee is identified below, the	document has been filed for	
(A) NAME OF ASSIG	•		(B) RESIDENCE: (CITY	_	COUNTRY)		
Please check the appropr	iata assignaa catagory or	categories (will not be pr	rinted on the natent):	Individual D Co	arnoration or other private or	oup entity 🖵 Government	
4a. The following fee(s)	are submitted:	41	 Payment of Fee(s): (Plea A check is enclosed. 	se first reapply ar	ny previously paid issue fee	shown above)	
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached.				
			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicate	d above)	_				
**	s SMALL ENTITY state				LL ENTITY status. See 37 C		
interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than the Office.	ne applicant; a regi	stered attorney or agent; or t	he assignee or other party in	
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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42425 75	90 01/14/2010		EXAMINER		
HICKMAN PAL	ERMO TRUONG &	MORRISON, JAY A			
2055 GATEWAY	PLACE		ART UNIT	PAPER NUMBER	
SUITE 550 SAN JOSE, CA 95110-1083			2168 DATE MAILED: 01/14/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 418 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 418 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/830,211	GE ET AL.			
Notice of Allowability	Examiner	Art Unit			
	JAY A. MORRISON	2168			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSEI or other appropriate com GHTS. This application	D in this application. If not included imunication will be mailed in due co	d ourse. THIS		
2. 🛮 The allowed claim(s) is/are <u>1,2,4-14,16,21-23,25-35,37,39</u> -	42,46,48,49 and 51-61.				
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).	been received. been received in Applica	ation No	on from the		
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		file a reply complying with the requ	iirements		
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 			TICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.				
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Rev	riew (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			ack) of		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT I 			ote the		
Attachment(s)	5 🗖 National	Chafeannal Detent Analisetien			
1. Notice of References Cited (PTO-892)		f Informal Patent Application v Summary (PTO-413),			
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper N	Jo./Mail Date r's Amendment/Comment			
Paper No./Mail Date	_				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examine 9. □ Other	r's Statement of Reasons for Allow	ance :		
	/Tim T. Vo/	·			
		Patent Examiner, Art Unit 2168			

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-2, 4-14, 16, 21-23, 25-35, 37, 39-42, 46, 48-49, 51-61 are allowable over the prior art of record. The closest prior art of record Jagadish, teaches evaluating the costs of different plans, however it fails to teach computing a selectivity value for predicates or gathering all the statistics of total number of nodes, total number of containers, total nodes accessible via a path through a specified node, and total containers accessible through a specified node, these limitations being indicated in claim 1, 9-10, 22, 30-31, 42, 46, 48 and 58 as "computing a selectivity value for each of one or more predicates", in claims 59 and 61 as "computing a selectivity value, based at least in part on the statistics, for a predicate included in the request", and in claims 40 and 41 as "wherein the step of gathering statistics comprises gathering each of a total number of nodes, in said hierarchy, that are accessible via a path through a specified node, a total number of containers, in said hierarchy, that are accessible via a path through said specified node, a total number of nodes, in said hierarchy, that are accessible via a path through said specified node and that are in a level of said hierarchy that is immediately under a level of said specified node, and. a total number of containers, in said hierarchy, that are accessible via a path through said specified node

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and that are in a level of said hierarchy that is immediately under said level of said specified node".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/830,211

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Information regarding the status of an application may be obtained from the

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Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Tim T. Vo/

Supervisory Patent Examiner, Art Unit 2168

Jay Morrison TC2100 Tim Vo TC2100